IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A radio communication system for performing a radio communication by combining the OFDM modulation method and the CDMA modulation method, the system comprising:

a transmitter apparatus, including a single symbol arranger for each information channel configured to arrange information symbols along a direction of a frequency axis in accordance with an arrangement pattern, configured to estimate conditions of propagation paths used in the radio communication, to select the arrangement pattern for the single symbol arranger based on the estimated conditions of the propagation paths, and to transmit a radio communication signal including the arranged information symbols; and

a receiver apparatus configured to receive the radio communication signal, and to rearrange the information symbols included in the radio communication signal along the direction of the frequency axis in accordance with a reverse pattern to the arrangement pattern.

2. (Currently Amended) A radio communication method for performing a radio communication by combining the OFDM modulation method and the CDMA modulation method, the method comprising the steps of:

estimating conditions of propagation paths used in the radio communication, arranging information symbols along a direction of a frequency axis in accordance with an arrangement pattern by a single symbol arranger for each information channel, selecting the arrangement pattern for the single symbol arranger based on the estimated conditions of the propagation paths, and transmitting a radio communication signal including the arranged information symbols, in a transmitter apparatus; and receiving the radio communication signal, and rearranging the information symbols included in the radio communication signal along the direction of the frequency axis in accordance with a reverse pattern to the arrangement pattern, in a receiver apparatus.

3. (Currently Amended) A transmitter apparatus used in a radio communication system for performing a radio communication by combining the OFDM modulation method and the CDMA modulation method, wherein

the transmitter apparatus, including ~~at least~~ a single symbol arranger for each information channel configured to arrange information symbols along a direction of a frequency axis in accordance with an arrangement pattern, is configured to estimate conditions of propagation paths used in the radio communication, to select the arrangement pattern for the single symbol arranger based on the estimated conditions of the propagation paths, and to transmit a radio communication signal including the arranged information symbols.

4. (Currently Amended) The transmitter apparatus according to claim 3, ~~the apparatus comprising:~~ wherein the single symbol arranger is selected from a plurality of symbol arrangers configured to arrange the information symbols along the direction of the frequency axis in accordance with the arrangement pattern,[[;]]

the apparatus further comprising:

a propagation path condition estimator configured to estimate the conditions of the propagation paths;

a symbol arrangement scheme selector configured to select the single symbol arranger from among the plurality of symbol arrangers; and a signal transmitter configured to transmit the radio communication signal including the arranged information symbols.

5. (Currently Amended) The transmitter apparatus according to claim 4, wherein the single symbol arranger is selected from the plurality of symbol arrangers ~~comprises~~ comprising:

a first symbol arranger configured to arrange the information symbols after error correction encoding along the direction of the frequency axis in accordance with the arrangement pattern;

a second symbol arranger configured to arrange the information symbols after data modulation along the direction of the frequency axis in accordance with the arrangement pattern; and

a third symbol arranger configured to arrange the chips which spread the information symbols along the direction of the frequency axis in accordance with the arrangement pattern.

6. (Cancelled)

7. (Currently Amended) The transmitter apparatus according to claim [[4]] 3, wherein the single symbol arranger is a symbol arranger configured to arrange the information symbols after error correction encoding along the direction of the frequency axis in accordance with the arrangement pattern.

8. (Currently Amended) The transmitter apparatus according to claim [[4]] 3, wherein the single symbol arranger is a symbol arranger configured to arrange the information

symbols after data modulation along the direction of the frequency axis in accordance with the arrangement pattern.

9. (Currently Amended) The transmitter apparatus according to claim [[4]] 3, wherein the single symbol arranger is a symbol arranger configured to arrange chips which spread the information symbols along the direction of the frequency axis in accordance with the arrangement pattern.

10. (Previously Presented) The transmitter apparatus according to claim 3, wherein the single symbol arranger is configured to arrange the information symbols along both the direction of the frequency axis and a direction of a time axis.

11. (Previously Presented) A receiver apparatus used in a radio communication system for performing a radio communication by combining the OFDM modulation method and the CDMA modulation method, wherein

the receiver apparatus, including a single symbol rearranger configured to rearrange information symbols along a direction of a frequency axis in accordance with a reverse pattern to an arrangement pattern, is configured to receive a radio communication signal including information symbols arranged along the direction of the frequency axis in accordance with the arrangement pattern that is selected according to estimated conditions of propagation paths from a transmitter, and to select the reverse pattern for the single symbol rearranger.

12. (Currently Amended) The receiver apparatus according to claim 11, the apparatus comprising:

a signal receiver configured to receive the radio communication signal,[[;]] ~~and~~

wherein the single symbol rearranger is selected from a plurality of symbol rearrangers configured to rearrange the information symbol included in the radio communication signal along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern.[[,]]

~~wherein the single symbol rearranger is selected from among the plurality of symbol rearrangers.~~

13. (Currently Amended) The receiver apparatus according to claim 12, wherein the single symbol rearranger is selected from the plurality of symbol rearrangers ~~include:~~ including

a first symbol rearranger configured to rearrange the information symbols after data demodulation along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern;

a second symbol rearranger configured to rearrange the information symbols after reverse spreading along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern; and

a third symbol rearranger configured to rearrange chips after the time-frequency conversion along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern, the chips spreading the information symbols.

14. (Cancelled)

15. (Currently Amended) The receiver apparatus according to claim [[14]] 11, wherein the single symbol rearranger is a symbol rearranger that is configured to rearrange

the information symbols after data demodulation along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern.

16. (Currently Amended) The receiver apparatus according to claim [[14]] 11, wherein the single symbol rearranger is a symbol rearranger configured to rearrange the information symbols after reverse spreading along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern.

17. (Currently Amended) The receiver apparatus according to claim [[14]] 11, wherein the single symbol rearranger is a symbol rearranger configured to rearrange chips after the time-frequency conversion along the direction of the frequency axis in accordance with the reverse pattern to the arrangement pattern, the chips spreading the information symbols.

18. (Previously Presented) The receiver apparatus according to claim 11, wherein the single symbol rearranger is configured to rearrange the information symbols along both the direction of the frequency axis and a direction of a time axis.

19. (Previously Presented) The radio communication system according to claim 1, wherein the transmitter apparatus is further configured to receive transmission parameter information specific to the radio communication signal including the arranged information symbols, and to select the arrangement pattern for the single symbol arranger based on the received transmission parameter information.

20. (Previously Presented) The radio communication method according to claim 2, wherein the step of selecting the arrangement pattern, in the transmitter apparatus, further includes selecting the arrangement pattern for the single symbol arranger based on received transmission parameter information specific to the radio communication signal including the arranged information symbols.

21. (Previously Presented) The transmitter apparatus according to claim 3, wherein the transmitter apparatus is further configured to receive transmission parameter information specific to the radio communication signal including the arranged information symbols, and to select the arrangement pattern for the single symbol arranger based on the received transmission parameter information.

22. (Previously Presented) The receiver apparatus according to claim 11, wherein the receiver apparatus is configured to receive the radio communication signal including the information symbols arranged along the direction of the frequency axis in accordance with the arrangement pattern that is selected according to the estimated conditions of propagation paths and received transmission parameter information specific to the radio communication signal including the arranged information symbols.